



LIST OF MAP UNITS

SURFICIAL DEPOSITS

- Qaf Artificial fill and quarries
- Qs Stream-channel deposits
- Qr Flood-plain deposits
- Qps Ponded sediments
- Qd Dune sand and sand sheet deposits
- Qes Eolian sand sheet deposits
- Qae Young mixed alluvium and eolian deposits
- Qv Valley-fill deposits
- Qtr Talus and rock fall deposits
- Qg1 Young terrace-gravel deposits
- Qa1 Young alluvial fan deposits
- Qg2 Intermediate terrace-gravel deposits
- Qa2 Intermediate alluvial fan deposits
- Qg3 Old terrace-gravel deposits
- Qa3 Old alluvial fan deposits
- Qa4 Older alluvial fan deposits

VOLCANIC ROCKS

SEDIMENTARY ROCKS

- Tics Chinle Formation, Shinarump Member
- Tmm Moenkopi Formation, upper red member
- Tms Moenkopi Formation, Shnabkaib Member
- Tmm Moenkopi Formation, middle red member
- Tmv Moenkopi Formation, Virgin Limestone Member
- Tml Moenkopi Formation, lower red member
- Tmt Moenkopi Formation, Timpoweap Member
- Pkh Kaibab Formation, Harrisburg Member

EXPLANATION

- Contact certain
- Fault certain; number is estimated offset in feet
- Fault concealed
- Syncline; dotted where concealed; arrows where plunging
- Strike and dip of beds
- Implied bedding
- Strike of vertical and subvertical joints
- Collapse structure
- Sinkhole